

UTILITY PATENT APPLICATION TRANSMITTAL

Docket No. 28674.1



Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

“STRUCTURE AND METHOD OF HIGH PERFORMANCE TWO LAYER BALL GRID ARRAY SUBSTRATE”

and invented by:

MICHAEL A. LAMSON and NAVINCHANDRA KALIDAS

This application is a division of prior application Serial No. 09/631,198 which claims priority from provisional application Serial No. 60/147,596, filed August 6, 1999.

Application Elements

1. xx Filing fee as calculated and transmitted as described below.
2. xx Specification having 30 pages and including the following:
 - a. Descriptive Title of Invention
 - b. Background of Invention
 - c. Brief Summary of the Invention
 - d. Brief Description of the Drawings
 - e. Detailed Description
 - f. Claims as Classified Below
 - g. Abstract of the Disclosure
3. xx Drawings
 - xx Formal Number of Sheets 5
 - ___ Informal Number of Sheets
4. xx Oath or Declaration
 - a. ___ Newly executed (original or copy) ___ Unexecuted
 - b. xx Copy from a prior application (37 C.F.R. 1.63(d))
 - c. ___ With Power of Attorney ___ Without Power of Attorney
5. xx Incorporation By Reference

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. xx Information Disclosure Citation/PTO 1449
7. xx Preliminary Amendment
8. xx Acknowledgement postcard
9. xx Please operate under Customer Number 23494

Fee Calculation and Transmittal

CLAIMS AS FILED

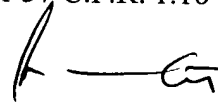
Total Claims	7	Extra Claims	Rate \$18.00	Fee	\$0.00
Independent Claims	2	Extras Claims	Rate \$86.00	Fee	\$0.00
			Basic Fee		\$770.00
			Total Filing Fee		\$770.00

xx The Director is hereby authorized to charge and credit Deposit Account No. 20-0668 as described below.

xx Charge the amount of \$ as filing fee.

xx Credit any overpayment

xx Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.



Jay M. Cantor
 Reg. No. 19906
 Phone (301) 424-0355
 Phone (972) 917-5293
 Fax (301) 424-0355

Texas Instruments Incorporated
 M/S 3999
 Dallas, Texas
 P.O Box 655474
 Dallas, Texas 75265